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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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(54) Title: 2" OXO-VORUSCHARIN AND DERIVATIVES THEREOF

(57) Abstract: The present invention relates to the novel compound 2" oxo-voruscharin and derivatives. In addition, the present invention relates to pharmaceutical compositions comprising the novel 2" oxo-voruscharin or derivatives. The present invention further relates to the 2" oxo-voruscharin and derivatives for use as a medicament and for use in the preparation of a medicament for treating cancer. The present invention also relates to a method of treating cancer.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/11194

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D513/20 A61K31/429 A61P35/00 C07F7/18
//(C07D513/20, 319:00, 311:00, 277:00)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|--|-----------------------|
| X | WO 98 52562 A (VERKAIK) 26 November 1998 (1998-11-26) cited in the application page 4, line 6 - line 12 | 1,27 |
| X | CHEUNG, H. T. ANDREW ET AL: "Cardenolide glycosides of the Asclepiadaceae. New glycosides from <i>Asclepias fruticosa</i> and the stereochemistry of uscharin, voruscharin, and calotoxin" JOURNAL OF THE CHEMICAL SOCIETY, PERKIN TRANSACTIONS 1: ORGANIC AND BIO-ORGANIC CHEMISTRY (1972-1999) (1983), (12), 2827-35, XP002271160 page 2828, compounds 1b, 3b, 3c | 1 |
| | -/- | |

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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& document member of the same patent family

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| Date of the actual completion of the international search | Date of mailing of the International search report |
| 23 February 2004 | 04/03/2004 |
| Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Authorized officer Alfaro Faus, I |

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Intern'l Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|--|-----------------------|
| A | US 5 645 988 A (VANDE WOUDE ET AL.) 8 July 1997 (1997-07-08) columns 23-24, table 6, compound 650362 | 1,27 |

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 03/11194

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

Although claim 29 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/EP 03/11194

| Patent document cited in search report | Publication date | Patent family member(s) | | Publication date |
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